DEPARTMENT OF THE INTERIOR BUREAU OF EDUCATION

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PHYSICAL EDUCATION IN AMERICAN COLLEGES AND UNIVERSITIES

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LETTER OF TRANSMITTAL

DEPARTMENT OF THE INTERIOR,
BUREAU OF EDUCATION,
Washington, May 10, 1927.

Sir: Notwithstanding much agitation for the promotion of physical education in our institutions of higher education, facilities and training along this line are still too much concentrated upon the few students who offer favorable material for the production of university teams in intercollegiate athletic contests. While sports of this kind are to be encouraged, it must not be overlooked that the average student needs and should have due attention paid to his physical welfare. The present status of opportunities afforded the rank and file of students is reviewed in the accompanying bulletin, and I believe that its publication will be a stimulus to many institutions to measure up to their opportunities for the preservation and promotion of sound bodies along with sound minds.

Respectfully submitted.

JNO. J. TIGERT, Commissioner.

The SECRETARY OF THE INTERIOR.



FOREWORD

A study of the status of physical education, military training, and hygiene in 182 American colleges and universities is presented in this bulletin. The list of institutions chosen for this investigation was used in a series of similar studies dealing with college entrance and graduation requirements. The list is intended to be representative of the different types of colleges and universities in the United States. The information was secured from the catalogues of the institutions. The material collected was recorded on a questionnaire, which was sent to each institution to be corrected or approved. A few institutions failed to return their questionnaires, but where the information required is clearly given in their catalogues, it is included in this study; otherwise it is omitted.

Physical Education in American Colleges and Universities

1. Requirements Relative to the Physical Condition of Students at Entrance

The requirements of colleges and universities relative to the physical condition of the student at entrance may be considered from the following standpoints: Number of institutions requiring a medical examination of the student at entrance; general outline of the medical examination prescribed; detailed analysis of the medical examination prescribed; value of physical efficiency tests, as a part of the examination; value of the medical examination of the student; continuous records of the student's physical condition; corrective gymnastics prescribed, and their credit value; vaccination for small-pox; vaccination for typhoid; unit entrance credit for physical education in secondary schools; and unit entrance credit for military training in the secondary schools.

Medical examination at entrance.—The physical condition of the student at entrance is now considered to be of such importance that only a few colleges will accept a health certificate signed by the student's home physician. Medical examination is required at entrance by 55 public and 74 private institutions, about 70 per cent of all those included in this study. In addition, it is required before the end of the first month by 7 public and 5 private institutions.

General outline of medical examination prescribed for students at college entrance.—The medical examination prescribed for each student at college entrance varies slightly in different institutions. In general, however, it calls for a brief account of the parental health history, along with the student's precollege health record. It always includes a careful medical examination of all the vital organs of the body. It frequently includes posture tests, the results of which are usually recorded in chart form; and it sometimes includes efficiency tests.

Health history of parents.—Information is usually recorded showing the occupation of each parent, the state of health of each, if living, along with a record showing whether either one has ever suffered from tuberculosis, cancer, mental disease, or apoplexy. Goiter is sometimes included in this list.

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Health history of students.—The precollege health history of the student consists of a record of all the diseases a student has had previous to college entrance, together with a statement of any ill effects which remained with the student after recovery. The student is asked to check this information on a card containing a list of diseases, and to state the age at which he had each one. The following diseases are usually mentioned on these cards: Mumps, whooping cough, chicken pox, scarlet fever, typhoid fever, chorea, neurasthenia, appendicitis, tonsillitis, asthma, skin eruptions, pleurisy, otitis media, tuberculosis, rheumatism, diphtheria, adenoids, enlarged glands, hay fever, and influenza.

Detailed analysis of medical examinations of students.—The medical examination prescribed includes a complete examination of the student in order to find out the exact physical condition of the various vital organs of the body, including eyes, ears, nose, throat, heart, and lungs. If any condition is found needing medical attention, it is urged immediately.

Other information included in the medical examination.—Most institutions record information concerning health habits of the students, such as the frequency of baths; the use of a cold plunge or shower; the amount of sleep; diet, including the use of tea, coffee, tobacco; and the use of other stimulants or drugs.

A record is also made of the student's previous work in physical education, including athletics; and of his present methods of recreation, along with a statement of the amount of outside work he is doing, if self-supporting while in college.

Value of physical efficiency tests.—Sixty-five institutions (27 public and 38 private) include physical efficiency tests as a part of the medical examination required of all students at entrance. Most of these institutions prescribe these tests to enable the physical directors to classify first-year students into classes where they will take part in physical activities suitable to their strength. Considerable difference of opinion exists regarding the value of the tests given and the methods used. The fact that only one-third of the colleges and universities included in this study are doing work of this kind indicates that physical efficiency tests are considered as yet merely in an experimental stage of development.

Value of medical examination.—The medical examination given each student is very valuable. Besides discovering physical faults of which he may be unaware, it clears up the student's mind regarding any fears he may have concerning his own physical condition. It is helpful to the instructor, especially in the classification of all first-year students. It shows very clearly those who need corrective gymnastics, likewise those who are especially fitted, on account of



possessing good mechanical use of the body, for more difficult or strenuous exercise.

Continuous records of students' physical condition.—Seventy-nine institutions of our list, including 32 public and 47 private, after conducting thorough medical examinations at entrance, have follow-up systems and keep continuous records of the students' physical condition during their entire college course. Three public and three private institutions do likewise until the second year. Five public and five private institutions keep records of special cases or sometimes partial records of all students. One private institution does this for one year only. Altogether, 96 institutions attempt, ion a time at least, to keep continuous records regarding the physical condition of students. This policy, which is now becoming generally accepted, is especially beneficial for those overstudious persons who fail to take sufficient care of their physical condition and who frequently at the end of the first or second year begin to suffer a loss of health.

Corrective gymnastics and their credit value.—Corrective gymnastics are prescribed and required of students needing same by 70 per cent of the institutions included in this study. Many institutions have this work given by specialists and allow semester hours' credit for it. A few institutions do not grant semester hours' credit value togthis subject, but are urging that the secondary schools should attend to this work more carefully, and thereby reduce to a minimum the need for corrective gymnastics to be given by the colleges and universities.

Vaccination for smallpox.\(^1\)—Vaccination for smallpox is made a definite requirement by 58 colleges and universities, including 25 public and 34 private institutions. Six other institutions urge or require it in emergencies only, and one requires that it should be done within two years of entrance. In most cases this requirement is a part of the R. O. T. C. regulations.

Vaccination for typhoid. Waccination for typhoid is required by 13 institutions, including 5 public and 8 private. While 7 other institutions urge this policy, the majority feel that it is necessary only in certain loce! ities or in case of an epidemic.

Unit entrance credit for high-school physical education.—The question of allowing any entrance credit for high-school work in physical training is a new problem. Eleven institutions indicate that they would favor giving credit in this subject. Only two of these indicate that they really allow this credit. Louisiana State University allows one unit for high-school physical education in cases where the students obtained such credit toward high-school graduation. The College



¹⁸se appendix for list of institutions sequiring vaccination for smallphr and typhoid for college entrance.

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of the City of New York allows one-half unit. Baylor College and South Dakota State College favor this policy. The other institutions favoring this plan include State College of Washington, Colorado. Agricultural College, Montana State College, North Dakota Agricultural College, University of North Dakota, Purdue University, and the University of Kentucky.

Unit entrance credit for military training in secondary schools.—The question of allowing unit entrance credit for military training given in secondary schools presents a new problem for consideration. Three public institutions—the University of Alabama, the University of California, and Louisiana State University—allow one-half unit for this work. The following institutions approve of giving entrance credit for military training given by the secondary schools: Purdue University, University of Maine, University of Cincinnati, Montana State College, Mississippi Agricultural and Mechanical College.

The private institutions do not seem to favor the policy of giving entrance credit in this subject.



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		[For location	[For locations of the institutions, see p. 43]	lons, see p. 43]		_		
Institution	Medical examina- tion at entrance	Medical examination at any other time	Continuous record kept showing physical copdition of	Physical offi- ciency tests given	Efficiency test determines type of work student is per- mitted or required to take	Corrective gymnastics given students needing same	Corrective gymnastics directed by specialist	Remarks (value of) concerning corrective gymnastics
			•	•	•		•	
Alabama Polytechnic Institute University of Arizona University of Arizona University of Arizona	S N N N N N N N N N N N N N N N N N N N	No. No. Yearly	NO N	No No Yes	Y. Y.	Yes. Military de- psrtment. Yes.	Yes. Military de- parlment. Yes.	Imporfant.
College ral College for Women.		Yee Rech quarter— When needed Yes No.	Yes, 2 years Yes, 2 years Yes, 2	Yes Yes No No No Yes No	Yes Partly No. (9) Partly	Yes	Yes Yes No Yes Yes Pacuity (No Military de-	
Furdue University Iowa State College of Agriculture and Mechanic Arts. State University of Iowa.	Yes	No 'Yearly	Yes	Yes	Yes	Yes	Yes.	Neoresart
University of Kansas Kansas State Agricultural College.	No	First month.	Partly	test. Yes; first month.	Yes	Yes	Yes ;	Great value for
University of Kentucky Louisians State University and Agricultural and Mechanical College. Mechanical Of Malab University of Maryland Massachusetts Agricultural College.	Yes	Yearly When neces- sary Yearly	Yes Partir Yes	No formally Yes	Partly. Yes.	Yes! Yes! Yes	Yes	(c)

PHYSICAL CONDITION OF STUDENTS AT ENTRANCE

TABLE 1.—Requirements of institutions relative to the physical condition of the student Continued

Institution	Medical examina- tion at entrance	Medical examination at any other time	Coestinuous record kept showing physical condition of student	Physical effi- ciency-tests given	Efficiency test determines type of work student is per- mitted or required to	Corrective gymnatics given students needing same	Corrective gymnastics directed by apecialist	Remarks (value of) concerning corrective gymnestics
	-		•	•	•			•
Public—Continued Michigan Agricultura College University of Manesota Mississippi Agricultural and Mechanical College	Y SE Y	First and third years. Yes	yes Yes	Yes; also pos- ture. In class grork.	Yes	Y YE	YES	
Montana State College of Agriculture and Mechanic Arts. Miniana State University.	Y 8		No.	No.	No.	Yes. Advice only s.	Na. Could be.	
Deliverally of Nebrasia University of Newda New Hampshire College of Agriculture and Me- Manale, Arge University of New Mexico	Yes	Optional Shortly effer	Yes, men. No.	Athletics only. Men. Posture test only.	Yes No Yes	Yes	X See	Important.
New Mexico College of Agriculture and Mechanic		-	No	°Z		No		•
Hunter College of the City of New York University of North Carolina North Carolina College for Women	Yes	Twice yearly.	Yes Partial Yes	o o	S C C Z	Yes; clinio 1	Yes	đ
North Carolina State College of Agriculture and Engineering. Worth Dakota Agricultural College University of North Dakota	Yes	The Second State of the Second	No	Yes; second year. Tearns only	Second year.	Yes	Yes	3.00 E
University of Akroa University of Cincinnati	Ke	(1)	S S	Army testa.	E o B	Yes Women only in	Yes	£
Obio State University Mismi University Obtainma College for Women University of Oklahoma	X X X X X X X X X X X X X X X X X X X	No Yearly Yes	Yes	Yes Each semester No.	Yes	Year	Yes	Real value. Important.
Oklahoma Agricultural and Mechanical Collega	Yea	Yes		Eramination only.	Yes	Yes	Yes	

PHYSICAL CONDITION OF	STUDENTS AT ENTRANCE	7
E SE	Good for won- en. Good, if need- ed. Small value. Important. Bemester-hour cred it al- lowed. Valuable.	
Yes No. (9) Yes	Yes	
Yes No. Yes No. Yes No. Yes No. Yes	Yes /	۲
No.	Yes L Yes L Yes G Yes G No L (3)	Y
Vos	No N	
No. Yea. No. Of some students. Yea. Yea. Yea. Yea. Yea. Yea. Yea. Yea	No. Yes. No. Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes	
Year No. T. C. Year No. T. C. Year No. Twice yearly Year Year Year Year Year Year Year Year	Yes. "Follow-up cases." No Yearly and when needed Seniors No No Yearly Ye	
2008 8 8 8 2 8 2 8 2 2 2 2 2 2 2 2 2 2 2	033 5 6 63 5 0338 38 034	
Enode Island Sitis College Outpetty of South Carolina South Dates State College of Agricultural and Mechanic Arts. University of South Dates University of Tennessee. University of Tennessee. University of Tennessee. Agricultural College of Utah University of Vernout and State Agricultural College Virginia Agricultural and Mechanical College and Polytechnic Institute. Virginia Agricultural and Mechanical College and University of Vernout Virginia Agricultural and Mechanical College and University of Vernout State College of Washington University of Washington	Hirmingham-Southern College University of Southern California Leand Stanford Junior University. Colorado College University of Denver Wesleyan University Commentiout Callege for Women. George Weshington University Roward University Agnes Scott College Emory University Agnes Scott College	

TABLE 1.—Requirements of institutions relative to the physical condition of the student—Continued

Institution	Medical eramina- tion at entrance	Medical scan- insticut at any other time	Continuous record kept showing physical condition of student	Physical effi- clency tests given	Efficiency test determines type of work student is per- mitted or required to take	Corrective gymnastics given students needing same	Corrective gymnastics directed by specialist	Remarks (value of) concerning promestics gymnastics
	•	•	•		•	1	•	•
Prieste—Continued Khor College	Yes	These only	O. K'd by bealth de- partment.	88 - 2	Yes	Yes	No	
Earlban College DeFauw University University of Notre Deme. Drake University Grinnell College	KAZKA	No	Yes. No. Yes, women; no, men.	N N N N N N N N N N N N N N N N N N N	Yes. Yes. women; no, men.	Yes No Yes Yes	X X S S X X S S X X S S X X S S X X S S X X S S X X S S X X S X	Important. Do.
Cornell College Baker University Washburn College Bowdoin College Bakes College	Yes Yes	As needed. Not regularly. Not for all Special cases.	Yes No Yes Yes	Yes No No	Yes Yes	Yes	Yes. Yes. Yes. Physical edu-	Most effec-
	111		Yes Yes Yes	Yes Yes B a r g e n t strength test	Yes. Sometimes	Yes	No.	Important.
Simmons College Harvard University Messechusetts Institute of Technology Raddiffe College Boston College Smith College	Yes Yes Yes No Yes	As needed Yearly Yearly No	Yes Yes Yes Yes	S O O O	No. No. Examination does.	Y 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	80888 XX	Z
Mount Holyaks College Thirts College Williams College	Y	Yes. No. If needed	Yes 3 years No	Yes	Yes k	Yes	Yes	C

Washington University (8t. Louis, Mo.). Darkmouth College. Rutgers College. Princeton University. Wells College. University of Buffalo.	Yes Yearly Vest		No		Partially	Physical di-		-
inceton University illa Collega. Iversity of Buffalo.	Yes	Yes, when de	Often for teams	Yes, partly	Yes	Yes.	Important.	
University of Buffalo	Yes Bports of Red of and	Yes.		III	Yes	Yes	ď	PHY
Colgate University Cornell University	Yes	X S S S S S S S S S S S S S S S S S S S			Yes Yes	Yes '	Should be	
Barnard College. Columbia University Fordham University New York University Vastar College.	Yes ser	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Yes No.	Y Y S	Yes Yes Yes Yes Yes	No. Yes Yes Yes Yes	1 -	CONDITION
University of Rochester Gracuse University	No 1st years. When necessary. Yes. Yes.	Yes			Yes		Value for spe-	. 02 .
Duke University Case School of Applied Science Western Reserve University Ohlo Wesleyah University		Not of all stu- N dents. No No. No. No. No. No. No. No. No. No.	No.		Prescription only.	Yes. Yes. Yes.	Orest value	
Oberlin College Antioch College Awar College Willamette University, Salem Lehigh University, Salem Bryn Mawr College	No. Yes Annually Yes Annually Yes	XXo XSS XSO XSO XSO		- paring	Yes Yes Yes Yes	111 11	First 2 years.	AT ENTRA
		2	Yes. Yes. Yes. No. No. No. No. No. No. No. No. No. No		Î		"Limited	NOB

TABLE 1.—Requirements of institutions relative to the physical condition of the student—Continued

Institution	Medical eramina- tion at entrance	Medical examination at any other time	Continuous record kept showing physical condition of student	Physical effi- ciency tests given	Efficiency test determines type of work student, is permitted or required to take	Corrective grunnastics given students breding same	Corrective gramastics directed by specialists	Remarks (value of) concerning corrective gymnastics
	•	•	•	•	•		•	
college College eratty s College	X X X X X X X X X X X X X X X X X X X	Yearly Find of year. Yes 3d, and 4th year. Yes Yes No.	2888 0 888 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SSEC OSC ON C PAR ZAZ ZA Z	Yes Yes Yes No. "No, work sork as a result of ex- amination."	Yes. Yes. Women II. Yes. Yes. Yes. Yes.	Yes. Yes. Yes. Yes. Yes. Yes. Yes. Yes.	Bpecial cases. Important.
Whitman College Beloit College	Yes					Yes	Yes	
						1		

'Semester bourforedit is allowed for corrective gymnastics when prescribed instead

of the regular required class work.

* Athletic fearns have special modical examinations.

* Medical examination is the basis for classifying students in physical education classes.

* Corrective symmatics are given by the regular staff.

* Corrective symmatics are required of all men excused from military training on

of enables a student to enter advanced classes in physical

Themselver hour credit is allowed in elective or teacher training courses in corrective symmetries.

No semester hour credit is allowed.
No semester hour credit is allowed.
Most important of all branches of physical education, but undeveloped.
Mimportant part of all work in physical education.
Myearly in medical college. Two years only in liberal articollege.
Myearly in medical college. Two years only in liberal articollege.
Myearly to providing this for men are not available.
Myearch physically sound may select his own exactles.
Myearch physically sound may select his own exactles.
Myearches gymnastics are required but not a part of the curriculum.

2. Required Work in Physical Education

A large number of institutions require a certain amount of physical education as a part of every undergraduate course leading to a bachelor's degree. There is a general tendency toward requiring this work for two years and allowing four semester hours credit for it. However, there is a difference of opinion regarding this matter and the policies of institutions vary, not only in the number of years physical education is required by the various departments or colleges, in colleges and universities, but also in the number of years prescribed for men and women and the amount of semester hours credit allowed for this work.

Table 2 shows the number of years during which physical education is required of men and women, and the semester hours credit. allowed for the work.

TABLE 2.—Requirements regarding physical education and semester hours credit allowed for this work 1

Institution	years	mber of required of—	hour	mester rs credit lowed	bours	semester required degree	total	cent of in physi- ducation
	Men	Women	Men	Women	Men	Women	Mon	Women
1	1		4	* &		7		
Public							-	
Alabama Polytechnic Institute University of Arizona. University of Arkansas. University of California. University of California. University of Colorado. Colorado Agricultural College. Connecticut Agricultural College. University of Florids. Florida State College for Women University of Illinois. University of Illinois. University of Indiana. lewa State University Iswa State College of Agriculture and Mechanic Arts! University of Kansas. Lansas State Agricultural College!	22222	3 2 3 2 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0 2 6 4 3 2 8 4	6 2 0 2 4 4 0 0 2 0 4	144 124 160 140 136 128 120 124 124 140 120	125 134 124 160 140 124 120 124 140 120	0 1.6 4.2 2.5 2.1 1.4 0.0 0.0	2.7 2.9 1.4 2.1 0 0 0 0 0 0
University of Kentucky Louisiana State University and Agricul- tural and Mechanical College University of Maine. University of Maryland Massachusetts Agricultural College 1. 3 University of Michigan Michigan Agricultural College 1 University of Minnesota Mississippi Agricultural and Mechanical College 1	1 2 1	2 4 2 2 2 2 2 0	2.8	2.8	127 125 158 120 120	127 144 125 129 158 120	2.4 3.7 0 0 0	2.7 2.4 6.3 3.7 0

In general, the requirements of institutions regarding physical education presented in this table rete the departments or colleges of liberal arts. Inasmuch as several agricultural and mechanical colleges
and scientific institutions included in this study do not have departments of liberal arts, the requirement
mentioned herein for these institutions refer to departments of agriculture or engineering, and this fact dicated by footnote 1.
Physical education is required as a substitute for military training only.

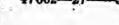




TABLE 2. Requirements regarding physical education and semester houses credit allowed for this work—Continued

Institution	TOOLS	nber of required of—	hour	nester s credit owed	ponta i	emester equired degree	total	cent of in physi- lucation
7	Men	Wamen	Men	Women	Men	Women	Men	Women
i.	•		4			7.	6	
<u> </u>			_	11.0		-	-	- 1
Public-Continued								
fishissippi State College for Women	*****	2		8		126		
niversity of Missouri lontana State University lontana State College t	2	7	0	- 0	120	120	0	
niversity of Nebraska	2	2			128	128	27	37
niversity of Nevada	2 .	.3	8	3	134	124	24	24
w Hampshire College of Agriculture and	2		3		144	144	1.3	27
Mechanic Arts	2	2	ő	Ö	444			-
ew Mexico College of Agriculture and					1111			
Mechanics Arts	9	2	4		134	144	*****	1.8
unter College of the City of New York		2		3		125		
diversity of North Carolina	1 :	1	0	0	120	120	0	
orth Carolina College for Women orth Carolina State College of Agriculture		3		3	******	126		4.6
and Engineering	2		6				0	
orth Dakota Agricultural College		3				125	24	5.8
niversity of North Dakota	4	i	3	3	125	128	2.4	1,8
hio Tiniversity	1	1	2	2				
niversity of Cancinnail.	2	2 2	2	1	126	124	3.2	3.2
hio State University	2	2	1		124	124	1.2	. 11
stabowa College for Women		2		4		124	*****	3.2
niversity of Oklahoms. klahoms Agricultural and Mechanical	2	2	4	4	124	124		
College Agricultural and Mechanical	1	2	3		12934	12014	1.4	19
College regon State Agricultural College niversity of Oregons ennsylvania State College	2		3	0	139	189	1.4	4.2
niversity of Oregone	2	2	6	6	124 128	124	3.1	2.2
hode Teland State College			8	8	160	100	8.8	
niversity of South Carolina outh Dakota State College of Agriculture	1	4	6		138	138	4.3	1
orth Dakota State College of Agriculture and Mechanic Arts 1					VA.	138		20
pleaselty of South Dakota	212 191	2		0		128		. 0
niversity of Tennassee	2	2	4	6	132	132		4.5
niversity of Teras	2	3	. 0	0		124	0	21
gricultural and Mechanical College of			*****	•			- L	
Toyes			2.		144	100	0	
gricultural College of Utah	375	3)2	634	694	120	120	LS	1.6
niversity of Vermont and State Agricul-		â					1	
tural College	2	2	8	8	132	183	6	0,
irginia Agricultural and Mechanical Col- lege and Polytechnic Institute	1	0	14	0	144		.7	
niversity of Virginia J	2	2	0	0	120	120 126	0	0
ollege of William and Mary	1	1	2	- 2	126 128	126	3.1	1.0
ate College of Washington		2		4		12736		3,
niversity of Wisconsin	2	2	8	8	120	120 126		22.00
niversity of Wyoming	2		3	3	126	120	1.1	
Private	1							•
rmingham-Southern College	1	0	4		124	*******	1.	
niversity of Southern California	2	2	1	1	124	124	8.3	
eland Stanford Junior University	3	1	6	ō	126	125	4.7	1.7
niversity of Denver	.3		-	-	124	124	1.2	2.9
rinity College (Hartford, Conn.)	3	*******	0		126	********	4.7	
ale University			ŏ	******				1.1.0
ale University onnecticut College for Women		•		8	140	130	0	6.1
atholic University of America		***********	10	10	162	120	1634	10%
rinity College (Washington, D. C.)		2		0	******	*****	****	0
and a first track of a 11 man.	ALIELLA.	3	W111118	4		134		
gnes Scott College	2	2 2		6	77.78.72.70	7.000		2311/22

I See footnote 1 on page 11.



Tank 2.—Requirements regarding physical education and semester hours credit allowed for this work—Continued

Institution	years	required of—	bou	mester rs credit llowed	portes	semester required degree		cent of in physic lucation
	Men	Women	Mer	Women	Men	Woman	Men	Woman
	•	137	4			1		•
Private—Continued						10-		
Krox College	3	1	4	4	124	124	2.2	1.2
Bariham College DePauw University University of Notre Dame	1	3	4	4	120	124	12	2.5
University of Notre Dame Drake University Orionell College	2	2	4 2	1	124	154	3.1	1.2
Cornell College Baker University		3	. 0	. 2	120	120	22	23
Washburn College Tukne University	1	ī	. 2	2	120	120	1.6	1.5
newdoin College		1	12	30	101	101	11.8	11.8
Bates College Colby College		3	0	0	131	131		
Goucher College Johns Hopkins University	2	3		0	125		0	Ŏ
Amberst College,	3 -	2	.0		132		8	
Smmons College	1 1	1		ā			0	0
Smith College	100	2		0		120		0
Tufts College. Wellesley College	2		3		123		24	. O
Villiams College	2		0	. 3		120	0	1.66
lark University	1	*4	0	0	120	120	0	0
witon College.	3	3 2	6	0	120	124+	6	
Perimouth College Integer College Processon University	2		o.		122		ō .	-
Kalla C'ollago			9.		110	126	12	
miversity of isomalo	1000	1	24	1		128	1.8	
ismilton College	2		2		140 128		1.5	
Minard College	4.00	4 .		6		130		
sambla University	7000	1 .	4	0	124	134	2.2	8.2
ssar College niversity of Rochester	9	3	-	4	124	124	2.9	8.2
racuse University masseleer Polytechnic Institute 1	2	2		•	124	124	3.2	8.2
ake Forest College	3	3	6	8	126 138	126	4.6	4.8
se School of Applied Science	1	2	7		140		6	
berlin College	2	1	3	2	194	194	0	i
ed College Barnette University	1		9 .	0			6	0
migh University	1	******	BE .	******	140		0 -	******
70 Mawr College	2	4		0	160		2.5	•
werlord College	2 .	3	0 -		128		2.1	
eversity of Pennsylvania	4 2	4	1	4	134	134	3.2	3.3
arthmore College	2	4	o L		124	124	0	0
wn University	2	3	0	0	120	120	0	0
averse College	3	3	8	8	126		0.8	6.3
liversity of the South	3	0	0	0	128	128		ő
of Institute	1	9 :-		0				*****
Mington and Lee University	3				124			0
iversity of Richmond		4		0				0
Munan College	2	2		4		124		2.2
lett College	3	3	0	0			0	0

Requirements refer to the department of engineering.

These requirements refer to Washington Square College.



Scope of required work .- The required courses in physical education usually include special corrective gymnastics (for those students needing this kind of work), light apparatus, calisthenic exercises, folk and gymnastic dances, indoor and outdoor games and sports, track activities, relays, and swimming.

Swimming.—One of the most interesting developments in colleges at present is the requirement of ability to pass certain tests in swimming. Nineteen public and twenty-nine private colleges and universities now require swimming for graduation. In the majority of these institutions the student must pass certain tests. Several institutions, however, do not withhold the degree if the student has taken the required instruction and practiced faithfully, but has not passed the tests. Dartmouth College requires all first-year students to pass the swimming test before they can engage in any other activity. The following public institutions prescribe ability to swim as a

requirement for graduation:

University of California, Berkeley; Connecticut Agricultural College, Store; Florida State College for Women, Tallahassee; Iowa State College of Agricultural and Mechanical Arts, Ames; University of Kansas, Lawrence; Kansas State Agricultural College, Manhattan; Michigan Agricultural College, East Lansing; University of Minnesota, Minneapolis; Montana State University, Missoula; College of the City of New York, New York; North Carolina State College of Agriculture and Engineering, Raleigh; University of Akron, Akron, Ohio; University of Cincinnati, Ohio; Ohio State University, Columbus; Oklahoma Agricultural and Mechanical College, Stillwater; Oregon State Agricultural College, Corvallis; University of Oregon, Eugene; Agricultural College of Utah, Logan; and University of Wisconsin, Madison.

The following private institutions prescribe ability to swim as a requirement for graduation:

Leland Stanford Junior University, Stanford University, Calif.; Wesleyan University, Middletown, Conn.; Yale University, New Haven, Conn.; Notre Dame University, Notre Dame, Ind.; Cornell College, Mount Vernon, Iowa; Amherst College, Amherst, Mass.; Harvard University, Cambridge, Mass.; Massachusetts Institute of Technology, Cambridge; Radcliffe College, Cambridge, Mass.; Williams College, Williamstown, Mass.; Carleton College, Northfield, Minn.; Washington University, St. Louis, Mo.; Dartmouth College, Hanover, N. H.; Rutgers College, New Brunswick, N. J.; Princeton University, Princeton, *N. J.; Wells Colleget Aurora, N. Y.; Cornell University, Ithaca, N. Y.; Barnard College, New York, N. Y.; University of Rochester, Rochester, N. Y.; Syracuse University, Syracuse, N. Y.; Rensselser Polytechnic Institute, Troy, N. Y.; Case School of Applied Science, Cleveland, Ohio; Lehigh University, Bethlehem, Pa.; Bryn Mawr College, Bryn Mawr, Pa.; University of Pennsylvania, Philsdelphia, Pa.; University of Pittsburgh, Pittsburgh, Pa.; Swarthmore College, Swarthmore, Pa.; Brown University, Providence, R. I.; and Converse College, Spartanburg, S. C.



3. Military Training

Previous to 1916 few colleges or universities besides the land-grant colleges provided military training as a part of their educational curricula. These latter institutions, though frequently inadequately equipped, had provided a certain amount of military training for their students since the first Morrill law of July 2, 1862, which was supplemented by the act of 1883, the Morrill Act of 1890, and the Nelson amendment of 1907. General Order No. 70, 1913, of the War Department "prescribed the regulations governing the application of those laws for the last three years preceding the establishment of the Reserve Officers' Training Corps and is still applicable to schools that have not entered the Reserve Officers' Training Corps."

Throughout the period from 1862 to 1916, previous to the World War, even the land-grant institutions varied greatly in regard to their policies of providing instruction in military training. Some institutions attempted to fulfill the requirements of the law in detail, while others merely tolerated the work. Although the War Department had been authorized and directed by Congress to provide instructors and some equipment, few institutions were sufficiently equipped to put this work on a basis with other subjects in the curricula.

Establishment of the Reserve Officers' Training Corps.—In September, 1916, Congress passed the national defense act which reorganized the Army and among other things created a definite system of civilian military training in preparatory schools and colleges. This act and the amendment of 1920 in establishing the Reserve Officers' Training Corps provided an organization consisting of two main subdivisions, viz, "a senior division to be composed of units of the several arms corps or services established primarily in collegiate institutions and a junior division to be established in other public and private educational institutions."

Previous to the establishing of the Reserve Officers' Training Corps the military training given in colleges lacked variety. Usually this work included merely a part of the work of the Infantry. The Reserve Officers' Training Corps, however, provides "for establishing units; corresponding to all the arms, corps, or services of the Army." Its primary object is to provide systematic military training at civil educational institutions for the purpose of qualifying selected stu-



^{1&}quot;Military training in land-grant colleges," by C. R. Mann and Col. P. J. Morrow. In Land-Grant College Education, 1910-1920, Pt. II, edited by Walton C. John. Department of Interior, Bureau of Education, Bulletin, 1924, No. 37, Chap. IX, p. 58.

^{1764.,} p. 59.

¹ hid., p. 60.

dents of such institutions for appointment as reserve officers in the military forces of the United States. This division is an important agency in a plan for national defense.

The four-year Reserve Officers' Training Corps course of the senior division is divided into the basic course and the advanced course. The basic course covers a period of two years, after which the student may elect the advanced two-year course if recommended by the officer in charge of military instruction and the president of the institution.

Completion of either course shall, when entered upon by a student, be a prerequisite for graduation as regards such student unless in exceptional case he shall be discharged from the Reserve Officers' Training Corps by the professor of military science and tactics for sufficient reason with the approval of the head of the institution.

Institutions that provide military training.—Of the 182 institutions included in this study 83 provide instruction in military training as a part of their curricula. Of this number 62 are public and 21 are private colleges and universities. Sixty-six institutions, including 58 public and 8 private, require as a minimum a two-year basic course in military training. Seventeen other institutions, including 4 public and 13 private, provide similar courses, either as elective work or as alternate or optional courses instead of the required physical education work.

Of the 83 institutions which provide courses in military training, 49 are land-grant colleges. All of these institutions provide this work on account of the Morrill law of 1862. All except the University of Wisconsin require it for two years of all male physically fit students. Military training was made an elective course in the University of Wisconsin in 1923 on account of the fact that a State law was passed at this time prohibiting compulsory military training in educational institutions in that State.

Special regulations of the War Department.—A few general regulations of the War Department are observed by all institutions in which units of the Reserve Officers' Training Corps are established. For example, the senior commissioned officer of the Regular Army on duty at an educational institution is designated as the professor of military science and tactics. He is accorded the same academic rank which the institution accords to the heads of the other departments.

A minimum of three hours a week of instruction and training is required to be given in the basic course and five hours a week is required for the advanced course, except in medical, dental, and veterinary units, in which only three hours are required.

Time required for military training.—A large number of the institutions included in this study require one hour of theory and two



^{*} Sec. 7, par. 46. Reserve Officers' Training Corps, Army Regulations No. 145-10, War Department. Dec. 15, 1994.

hours of practice each week in the basic course, making a total of three hours each week. A few institutions, however, require a total of four or five hours each week even in the basic course. (See Table 3, page 18, for requirements of each institution.)

Under special ruling of the War Department, a student engaged in athletics may be excused from the physical training held under the department of military science and tactics during the season in which

he is actually engaged in such athletics.

Academic credit allowed for military training.—Institutions differ in their policies in regard to the number of semester hours credit allowed for required and elective courses in military training. (See Table 3, p. 18.)

The number of semester hours credit allowed for the required work

in military training varies from 2 to 12.

A few institutions allow military training to be taken as a major, minor, group, free, or alternate elective by students in their junior and senior courses.

Eleven institutions, including eight public and three private, allow military training to be taken as a major elective subject in a four-year course leading to a bachelor's degree. Semester hours credit varying from 12 to 32 are allowed for the work.

Ten institutions, including nine public and one private, allow military training to count as a minor elective subject in a four-year course leading to a bachelor's degree. Semester hours credit allowed for this work by these institutions varies from 8 to 16%.

Nine public and two private institutions allow military training to be taken as a group elective. The semester hours credit allowed for this work varies from 10 to 18 credits.

Sixteen public and six private institutions allow military training to be taken as a free elective. Semester hours credit allowed varies from 4 to 16.

Five public institutions and two private institutions allow military training to be taken as an alternate elective. Semester hours credit is allowed varying from 4 to 12.



TABLE 3.—Required and elective work in military training in certain colleges or depostments of public and private institution

[L=Land-grant institution, indicated by an L in column 3]	•	
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				4	marmhar					Elective		•	Total
Tratification	Land- grant	Num	Hours 1	Hours per week	Number		A based on the					,	plas
	insti- tutions	years re- quired	Theory	Prac-	ter bours required in mili- tary training	hours credit required for a degree	of total required In military training	Major	Minor	Group	Free	Alter- pate	
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Public										Ī			1
Alabama Polytechnic Institute	H	***		69	**	141	5.5				13/6		
	1	4 64 6	1	***	**	12 K	~ c		80	Ì	•		
University of California.	144	***	11		•	27	77		Ì	2	Ì	2	1
Connecticut Agricultural College 1 University of Delaware	1-1-	101	I I	S TOTO	n o	25	4.4	R	İİ				i
University of Florids 1. Georgia State College of Agriculture and Mechanic Arts.	거거	- 64 64		•	7 - 0	136	2.0		İİ	II	II	li	<u>i_</u>
Georgia School of Technology University of Idaho	1	nr.	*	an	000	128	6	12	İİ	İ			H,
University of Indiana	1	C4 C4	0	~	m 4					İ			
Furdue University Iowa State College of Agriculture and Mechanic Arts Catala University of Agriculture	러니	au	(Total,	5 bours)	£.	3 5	50 Cd			183			1 .
University of Kansas		10			••	*	20	Ī	-	Ì			
Kansas Agricultural College I. University of Kentmary	٦,	enc		ľ		8	29						
Louisiana State University and Agricultural and Mechan-	١,			•	9	8	;	2	-	1	Ī		
University of Maine	41	C4 C4	7	2	41-	125	70		-		I	•	
University of Maryland Massachusetts Agricultural College	44		7	en m	200	188	44			3	п		
Michigan Agricultural Collages	-	o e	*******	-					-				

TABLE 3.—Required and elective work in military training in certain colleges or departments of public and private institutions—Continued

[L=Land-grant institutions, indicated by an L in column 2]

	,	in .	•	PÅ.	Required					Elective	- y	Ĭ	Total
Institution	Land	Num-	Hours ;	Hours per week			Per cent		,				di
	tutions	years quired	Theory	Proc	required in mili- tary training	required for a	required In military training	Major	Minor	Group	ž.	Alter-	allowed degree
-	•	-	•		•			•	,=	=	2	=	3
Prients-Continued													
seachers Institute of Technology	7	900	**	1	•			77					1
Ages College	T	980							-	1	300	1	
med University	T) et e	1	C7 10	•	120	•		C	C	3		1
neme Dalverdiy		00	6			134	•				-	_	
hysto Oolings.		•••			••	156	•				a	•	84
Intentity of Pittaburgh		•	-	-	•	-	•		*******	-	******	-	E

pes included in this study do not have departments or colleges of liberal arts. In such instances statistics given refer to the departs is mentioned in a note. Otherwise statistics in this table refer to the department of liberal arts.

is elective in the department of military science. Is not in required by the department of engineering of this institution. in refer to the department of general science.

In refer to the department of agriculture.

In refer to the department of agriculture.

In the first part of the department of agriculture.

In the first part of the department of agriculture.

In the first part of the first part information is lacking as to the number of semester hours credit allowed for it.

It would be an elective. Information is incomplete as to the number of semester hours credit allowed for it.

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That "to be missed 4. Hygiene with ment

Scope of hygiene as a college subject.—Eighty-three institutions, including 36 public and 47 private, require personal hygiene. Thirty-six of these, including 23 public and 13 private, allow semester-hours credit for same varying from one-fourth to two semester-hours credit. (See Table 4).

The methods of instructing students in personal hygiene vary in different colleges and universities. In some institutions this instruction consists of a series of special lectures which all students attend. In other institutions this work is presented in connection with required physiology or biology.

In addition to the foregoing courses in personal hygiene, many institutions provide special lectures on venereal diseases. These lectures are sometimes presented by the students' health service and sometimes by the department of military training.

One hundred and one institutions, including 45 public and 56 private, give courses or special lectures on venereal diseases. Seventy seven of these, including 35 public and 42 private, make this work compulsory.

These facts show an awakened interest in personal hygiene in American colleges. The ideal of attainment has been clearly stated by Dr. Thomas A. Storey, of the College of the City of New York, as follows:

We hope and plan each year to send out a group of healthier, stronger, more tugged, and more efficient young men who, because of our influence, will be of greater academic, social, moral, economic, and political value as American citisens. We hope and plan to join the other departments of this great college in the development of character and the making of men.



Department of hygiene of the College of the City of New York, by Dr. T. A. Storey, p. 51. (Copyrighted by the Narraganestt Machine Co.)

PHYSICAL EDUCATION IN AMERICAN COLLEGES

TABLE 4 .- Institutions requiring personal hygiene of all students

I Institution	Semester- abours studit allowed	Institution	hours credit allowed
Public		Private a	-
labama Polytechnic Institute	·····i	University of Southern California Connecticut College for Women Howard University	1
Iniversity of California	1 12	Knox College	
		DePauw University Drake University Grinnell College Cornell College	
University of Florida Iniversity of Illinois Indiana University Purdue University Owa State College of Agriculture and Mechanic Arts	= 1 <mark>34</mark>	Baker University	
		Washburn College Bowdoin College Amherst College Harvard University	
Iniversity of Kansa. University of Kentucky. Iniversity of Maine. University of Michigan. University of Minnesota.	26 1	Radeline College	
Elizationi Agricultural and Mechanical		Smith College, Mount Holyoke College Tufts College Wellesley College	
College.		Wellesley College Williams College Worcester Polytechnic Institute	
Joiversity of Nevada. New Hampshire College of Agriculture and Mechanic Arts	1 2	Worcester Polytechnic Institute	
		Wells College	
Aunter College of the City of New York. Forth Carolina College for Women Forth Dakota Agricultural College Philo State University Philo State University	1 2	University of Buffalo Colgate University Cornell University Barnard College	
Iniversity of Oklahoma	73	Columbia University	1
Pennsylvania State College	3	Vassar College	
Iniversity of Utah	46	Labini University	
Iniversity of Virginia College of William and Mary University of Washington	12	Bryn Mawr College	
University of Wyoming		Swarthmore College	
		Converse College Vanderbilt University Washington and Lee University University of Richmond	
		Sweet Briar College	

i Men.

1 Women.

Women only.



Two public institutions, testfeldt Amyestry of New Maries, and Rhode Island State Comar, in we street of intercollegiate addition

This section presents a discussion of the problem of control of intercollegiste athletics for men; the development of intercollegiste athletics for women; and the organization of intramural athletics for men and women.

Methods of control.—The methods of handling intercollegiate athiletics are as follows: Control by the department of physical education; control by the department of physical education and a faculty advisory committee; control by a director of athletics; control by the president of the institution, the faculty, students, and alumnic control by the faculty; and control by the students.

Until recently the management of intercollegiate activities has been largely controlled by the students, alumni, and the athletic coach who was rarely considered a member of the faculty of the institution. However, with the recent growth of substantial departments of physical education by a large number of institutions, the management of intercollegiate activities has, in a few instances, been transferred to these departments. Oberlin College did this in 1916. Since then 11 other institutions have adopted this method of control. Thirty-three public and 37 private institutions favor the foregoing management of athletics, although they have not been able to establish it in their respective institutions. Forty-six institutions did not report their opinion regarding this method of control and only 10 public and 13 private institutions stated that they opposed it.

Six public and five private institutions favor control of intercollegiate athletics by the department of physical education and a
faculty advisory committee. These institutions are: Mississippi
Agricultural College; University of Mississippi; College of the City
of New York; Hunter College of the City of New York; North
Carolina State College of Agriculture; University of Texas; Leland
Stanford Junior University; Cornell College, Mount Vernon, Iowa;
Hamilton College, Clinton, N. Y.; Western Reserve University,
Cleveland, Ohio; and Temple University, Philadelphia, Pa.

Four public institutions favor intercollegiate athletics under control of a director of athletics: University of Florida, University of Michigan, Oregon State Agricultural College, and the College of William and Mary.

no in the second



^{*}See Table 5 for list of institutions favoring and opposing this method of control for intercollegiste

⁴⁷⁶⁶²⁻²⁷⁻¹

Two public institutions, the State University of New Mexico, and Rhode Island State College, favor control of intercollegiate athletics by the president and the faculty.

The State College of Washington, Pullman, favors control of intercollegiate athletics by the president, faculty, students, and alumni.

Baker University, Baldwin City, Kans.; and Baylor University, Waco, Tex., favor control of intercollegiate athletics by the faculty.

Amherst College at the present time is trying out modified student control. Pennsylvania State College favors a cooperative plan between the department of physical education and a department of athletics.

These facts indicate that regardless of what is actually done by American colleges and universities, there is a strong ideal among these institutions that intercollegiate athletics should be under the control of the department of physical education.

Intercollegiate athletics for women.—At Mount Holyoke College, between 1837 and 1862, domestic work supplemented by light calisthenic exercises, including quadrilles, furnished healthful exercise for the students. In 1862, this work was supplemented by the Dio Lewis system of gymnastics. Although as early as 1875 girls in this institution played tennis and enjoyed boating, such activities were carried on merely for pleasure, and competitive intercollegiates games were not even thought of.

With the recent emphasis on physical education activities in all educational institutions there arose a tendency for college girls to conduct intercollegiate games. Many heated discussions have taken place regarding this problem. Only 14 public and 17 private institutions permit intercollegiate contests for women. Baker University, Baldwin City, Kans., and Knox College, Galesburg, Ill., however, limit this activity to tennis. For a list of institutions in which intercollegiate sports for women are carried on see Table 5.

A large number of institutions, including many women's colleges, oppose intercollegiate activities for women on the ground that they are unnecessary, are too severe, are usually poorly managed, and require an amount of time far in excess of any real value. Considering the short time in which girls have had opportunities for taking part in any kind of athletic activities, the majority of directors of this work feel that the present need is for more suitable games for girls, for readjustments of boys' rules to suit the girls, and not for keener competition.

Intramural athletics for men and women.—Intramural athletics consist of organized competitive games which are carried on entirely within the student body of a single institution. The work is so organized that all students are encouraged to participate and are given opportunity to take part in the sports of their choice. The



relative importance of this system is evident from the fact that 68 institutions, including 33 public and 35 private, provide this system, and 93 institutions, including 44 public and 49 private, provide it for men. (See Table 5.)

In general the value of a system of intramural athletics lies in the fact that it affords opportunity for every student to enjoy the health and recreational and educational benefits to be derived from athletic games. Each student is encouraged to participate in activities suitable for his constitution as well as his disposition. The emphasis of the system is rightly put upon playing, and not upon winning the game.

Table 5 shows the per cent of students in various institutions who take part in intramural athletics.

TABLE 5 .- Intercollegiate and intramural athletics for men and women

* * *	Institution		Do you favor control of inter-collegiate athletics for men by a department of	Does institu- tion have inter- collegiate - athletics for - women?	repa taking intre	cent idents orted part in mural letich
	7	x)	physical education?	WOLLDER !	Men	Women
4	1	*	1	•	4	1
•	, Public .					
Alabama Polytec	hnic Institute			فيتمني جرود		
University of Ala University of Aria	hnic Institute al Institute barna tona ansas ifornis orado tural College cultural College aware rila lege for Women rgia Technology		NoYes.	Yes	80+	
University of Cal University of Cal	ifornia.		Yes	No No	41	.24 20
Connecticut Agricult	cural College		Yes	Yes	50	75
University of Dal University of Flor Florida State Col	swareridalege for Women			No	90	
University of Geo Georgia School of	Technology bo		No		50	
University of Illin	iola		Yes	No		
Purdue Universit Iowa State Colleg	y	anio Arts	Yes	No	56 65	65
State University of Kar	y y s of Agriculture and Mech of Lowa coulturel College tucky University and Agriculture		Yes	No	33 34	48
0 11	mit minell men will semisor :	m pero curomantaliste	********	*1940000000	41	34
College, University of Mai University of Mai	ins		Yes	Yes	68	84
Massachusetts Ag University of Mic	ryland ricultural College higan		Yes	No	80	70
University of Mir. Mississippi Agricul	higan tural College mesots altural and Mechanical Co	ollege	Yes		71 67	
University of Mis	electrol	*************			50	
Montana State Co	souri ollege of Agriculture and I niversity	dechanic Arta	Yes	No		78

Indicates information incomplete.



Depends on enreliment.
The institution now uses this method of control.

TABLE 5 .- Intercollegiate and intramural athletics for men and somes - Continued

4		Institution	o eccasi	Do you favor control of inter- ollegists thicking in men by depart- ment of	Does institu- tion have inter- collegists athletics for women?	rep taking intra	r cent udents corted g part in amural aletics
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		1		1			
		Public-Continued.			1,		
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Univer	dty of Nev	ada	Y	83 ·····	No	86	60
Now 12	Ampanire v	College of Agriculture and har	schanie Arts	d	Na	. 58	
New M	Colly	Mesing	N N	0	Yes	********	
College	of the City	ege of Agriculture and Mecha y of New York † the City of New York th Cardina oliege for Woman ate College of Agriculture and ricultural College th Dakota	Dig Mis	J	19	*******	
Hunter	College of	the City of New York	*************		Ve		
Univers	dry of Nor	th Carolina			No.	63	10000
North C	Jarolina Cr	ollege for Women	MARIA OF LA		No		23
North C	arolina Str	ate College of Agriculture and	Engineering				
North 1	Jakota Ag	ricultural College	N	0	Yes	26	64
DILAMA	ity of Nor	ch Dakota	*****************		No	= 51	19
Univers	Ity of Aker	on	Nr	0	No		
Onto Or	Alversity	***************************************		M	No	88	30
VEL SE	Hy or Other	Annau		d	Yes	ستوييد	
Miam!	Toleardty	aty	V.	A	No	13	21
Oblahor	The College	In Wamen	***********	A	No	-10	90
Treivers	HE ALOUE	lor women	N/	2-12-12-2	No		34
A labor	Arricul	th Dakota. cinnati sity for Women ahoma ltural and Mechanical College cultural College gen to College	Y	4	No	90	48
Common !	Ctate Agri	cultural College		A HILL	No	48	. 58
Infrers	the of Ores	Mittigs Coungers		difficulty	100	100	78
Pannay	venia Stat	College		A THE STATE OF	.No.	100	100
Rhode I	sland Stat	te College	1114 1011111111111111111111111111111111	-	Ves	100	100
Clamson	Agricultu	College	***************************************		16	100	1
Universi	ity of Sout	h Carolina	Ne		No	SEE THE	
South D	akota Stat	College of Agriculture and 1	fachanio Arta_ No		No	21	
Univers	ty of Bout	h Dakota	AV.	THILL	No	36	23
Univers	ty of Tenn	40000		1777	Yes	65 7	2
Univers	ity of Term	A			No	80	26
Aglan	ural and a	Acchanical College of Terra	Ye	Same		70	
Dollege .	of Induser	al Arts.	V.		No		61
Leriou	DIAL COM	m of Utah	Te	A	No	13	
Julyan	ty of U	or College ural College th Carolina to College of Agriculture and M th Dakota neases to dechanical College of Taxas tal Arts ge of Utah neast	V.	ð	No	-	
University in	Ly te von	Adle	Pale Ve	4		70	
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College	of William	and Mary	•••••••••••••••••		·V	18	
Jones Co	W low 10	and Mary		******	Y	50	.00
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Want VI	irginia Uni	hingtoniversity			ministry.		*******
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nivers	tv of Wyo	ming	Ŷ			40	2
	St. Aller			*******		-	
	-	Private	-			. 1	1
	2		1.1		411	1	1
3trming	ham-South	hern College	No		Yes	83	10
UMEVecui	ity of Bout	hern California	· · · · · · · · · · · · · · · · · · ·		No	44	33
Alabd b	Staniord Ju	unior University			***********	74	77
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Jusves	TY OF DES	ver.			No		
LIBET	College (E)	artaged, Conn.)	Ym	d		78	
A 25. 41.	II University	ity	Ne	d		98.5	
Y Man U.	Colle	ge for Wamen	No		-	≈ 74 ÷	
Company V	Machineto	ge for Women n University	.v.	and the	No	*****	60
Journal	Waterest.	n University	Y.		Yes	. 24	25
Automa Br	oott Colleg				No	86	N.
U naversi	ity of Chie	MEO	Yes		No		
of orthon	Uni	versity	······································	d	No	10	11
Knor Oc	ollege		Martin and the state of the latest		Yes	77	61
Wabaab	College				miles a distant	44	-
-	LUGUADA		Val		No		66
e ar inam	. Comment	*******			No	41	1
DePagw	こしかは金貨を	The second secon		A. Charles	No		*****
De Pauw Universi	ity of Note	Dame.	2012/04/12/12/2017 19:17		100	***	1.44
De Pauw Universi	ity of Notro	Dame.	Ye		No	33	-



^{*} The institution pow uses this method of control



TABLE 5.—Intercollegiate and inframural athletics for men and women—Continued

Institution		Do you favor content of intent collegiate athletics for men by a depart-	Does, institu- tion have inter- collegiste athieties	taking intra	cent . ndents pried part in mural letice
		ment of physical education?	women?	Men	Women
		1	1	4	
Private—Continued.					
Corpell College			No	20	26
Baker University Washburn College		Yes	100		******
Bowdoin College.		No		81	E
Bates College		Yes	No		
Colby College				61	
Goucher College Johne Hopkins University			No		25
Johns Hopkins University	•••	X es		50	*******
Amherst College	•••		Yes	83	*****
Boston University Simmons College			No	******	18
Harvard University				80	
Harvard University		Yes			
Radeliffe College			Yes		
Boston College.		No		40	
Mount Holyoke College		Yes	No Yes		
Wellesley College	171	100	No	100	100
Williams College		Yes		93. 8	
Clark University. Worcester Polytechnic Institute		Yes		54	
Worcester Polytechnic Institute		Yes		71	
Cariaton College		Yes	No.	No. 2017 12	
Washington University (St. Louis, Mo.)		No	No		
Washington University (St. Louis, Mo.) Dartmouth College Rutgers College		Va			
Princeton University		Yes		- 90	
Wells College			No		
University of Buffale.		Yes	No		89
Hamilton College.			College College	35	
Colmie University			Yes	*	*****
Cornell University.		No	Yes	£	*******
Barnsrd College Columbia University			No		- 00
Fordham University		No	~~~		
New York University		Yes	Yes		
Vasear College			No		
University of Rochester		Yes	No	- 50	18
Union University		Yes	No	86	
Syracuse University Rensselaer Polytechnic Institute.	77.	Yes	140	60	OI.
Duke University		No	20-20-3-20-0-20		
Wake Forest College		No	No		
Case School of Applied Science		Yes		67	
Western Reserve University			No	100	300
Ohio Wesleyan University		Yes	No.	52	
Aptioch College		Yes	Yes	87	70
Reed College			Yes	100	100
Willamette University		Yes		38	16
Lehigh University	-3	Yes		77	
Bryn Mawr College			No		*******
Lalayette College Temple University		No	Yes		
University of Penneylvania		Yes.	No	23	14
University of Pennsylvania. Carnegie Institute of Technology	111			.7	10
University of Pittsburgh			Yes		
Swarthmore College		Yes	No	95	60
Washington and Jefferson College		Yes		*******	******
Brown University		Yes	No		******
University of Chattanooga		No	Ye		- 03
Vanderbilt University	77	21191121127	No.	47	
University of the Bouth			44	76	24.4121
University of the South Washington and Lee University		Yes		0,1	****
Randolph-Macon Woman's College	4		*********		78
University of Richmond		***********	Yes	55	******
Sweet Briar College		V	Yes	32	*******
Beloft College		Yes	*********	0.4	55

^{*} Indicates information incomplete.



The institution now uses this method of control.

6. The Students Health Service

The students health service is an organization which has grown up very recently for cafeguarding the health of students. The majority of American colleges and universities provide such service. Some institutions require all students to visit this department at stated intervals; others, for example, the State University of Ohio, maintain it for advice only. Stanford University furnishes an excellent example of cooperation between the departments of physical education, health; and athletics. The medical adviser and the director of physical education have their offices in the gymnasium. All new students are given a thorough medical examination at entrance. All students taking part in athletics are given special examination of heart and lungs. All excuses from the regular class work in physical education must be handled through this department."

At the present time 130 institutions, including 63 public and 67 private, provide at least one physician for examinations and consultation. One public institution arranges for the city board of health to do this; 121 institutions, including 65 public and 56 private, provide nurses to assist in this work; 115 institutions, including 60 public and 56 private, provide hospitals or infirmaries; 31 institutions, including 23 public and 18 private, provide this service free for the student: while 62 institutions, including 36 public and 26 private, charge a small fee, or let the student pay a small per cent of the costs, especially for hospital care. The fee charged for this service varies from \$1 each semester to \$10 a year.

In some institutions the students health service and the department of physical education are organized separately. In such cases correlation of work is advantageous. A very good explanation of the development of the students health service in colleges and universities has been given by Dr. John Sundwall. Doctor Sundwall feels that the growth of this department has come about as a result of the recent discoveries in nutrition work, preventive medicine, and the realization of the fact that physical education, often placed at a disadvantage on account of the unwieldy situation of intercollegiate athletics, could not possibly control the health situation alone. Doctor Sundwall states that neither the health staff hor the physical education staff could attend to this matter alone, but that they should both agree on the point of promoting the students' health. "On account of the great amount of work to be done in large institutions this work can go on functioning each in its special lines without much duplication, and with little, if any, friction, although this independent arrangement is by no means ideal." .



Barrow, W. H. General participation in athletics in the student health program. Nation's Bealth.

Interminationship between physical education and students health service. By John Sundwall, M. D., health officer, University of Michigan. American Physical Education Review, April, 1921, page 6.

A report of the president of the University of Illinois for 1924 mentions the splendid growth of the "health service" department. This growth is attributed mainly to an increased interest in hygiene.

The following data, taken from this report, are given as examples of what was accomplished during 1923-24 at this institution: 27,300 visits were made by the students to the health service station; 3,143 physical examinations were made; 1,179 students were given a second examination; 1,985 recommendations were given for temporary excuses from classes; 3,760 calls for first aid and infection were given; 3,814 consultations for advice were given; 2,096 conferences on personal hygiene were held; 3,537 directions in regard to self-care were given; 276 petitions for excuse from military and physical training were considered; 345 vaccinations against smallpox were given; 400 typhoid vaccinations were made; 531 students were referred to specialists; 601 students were admitted to the hospital; 568 students were given attention on account of exposure to disease; and 4,843 follow-up visits were made to students who were ill.

Table 6 contains detailed information regarding the student health service in each institution.

TABLE 6 .- Institutions providing health service

Institution	Physician	Nurse	Hospital or in- firmary	Free service	Remarks
1	•	•	4.		
Public				+	
Alabama Polytechnic Instituta. Alabama Technical Instituta University of Alabama	Yes	Yes	No Yes Yes	Yes Yes Yes	ų.
University of Arizona	Yes	Yes	Yes	No	\$5 per semester.
University of California University of Colorado	Yes	Yes	Yes	No	Email fee each student. Rates reduced 25 per cent to students.
Colorado Agricultural Collega Connecticut Agricultural Col- leca.	NoYes		No Yes	Partly	Student pays physi-
University of Delaware	Yes Yes	Yes Yes	Yes Yes Yes	Yes No	\$5 yearly. Entrance infirmary fee.
University of Georgia	Yes	No	Yes	No	\$5 yearly.
University of Idaho	NoYes	YesYes	Ya	No	\$2.50 each semester. Hospital care free four
ndiana University	Yes	Yes	Yes	Yes	weeks a term. Fee is a small percent- age of the cost.
Purdue University	Yes	Ye	Yes/	No	Fee \$4 yearly; maximum hospital bene-
owa State College of A. and	Yes	Yes,	Yeq	No	fit, \$30 per year. \$2 quarterly.
M. Aria. State University of Iowa University of Kansas. Kansas State Agricultural College.	Yes	Yes Yes Yes	Yes	Yes Yes No	\$5 fee at registration. \$3 per semester.



PHYSICAL EDUCATION IN AMERICAN COLLEGES

Taben 6 .- Institutions providing health service-Continued

Igstitution	Physician-	Nurse	Hospital or in- firmary	Pree	Remarks
1	,		4.	1 .	
Public-Continued					
University of Kentucky	Yes	Yes,	Yes		Hospital foe of \$1 each
Louisiana State University and A. and M. College.	Yes	Yes	Yes	No	clinic available. Si for session of i weeks, plus cost prescriptions.
University of Meins	Yes	Yes	Yes		1 1 2 1 2 1 2 1 2 1 2 1
Manuchumita Agricultural	Yes No	Yes Yes	Yes	No	Not adequate to pr
College. University of Michigan	Yes	Yes			A per cent of the st
					deuts' fees suppor
Michigan Agricultural College.		No. of London Control of Control	A TOTAL OF	Y	nesium.
University of Minnesota	Yes	Yes	Yes	Yes	treatment given for
Mississippi A. and M. College.	Yes	Yes	Yes	No	\$8 a manion fo: au su
University of Mississippi University of Missouri	Yes	Yes Yes	Yes	No	Pes, \$6.50.
Montana State College of A.	No.	Yes.	No	1 65,	\$6 yearly.
and M. Arts.					
Montana State University University of Nebraska	Yes	Yes	No	Yes	#2 50 quarterly. Hospital for athlet injuries only.
University of Nevada	Yes	YesYes	Yes	No	\$3 each semester.
New Hampshire College of A. and M. Arts.	100	100	166		\$4.50 per year healt fee and \$1 per day a infirmary.
State University of New Mexico.	Yes	No		Yes	imirmary.
New Mexico College of A. and M. Arts.	No	Yes	Yes	No	This institution do not pay physicia fees but pays \$2.1
College of the City of New York.	Ye, 7	No	No	Yes	only emergency trea ment given, two der
Hunter College of the City of New York.	Ye			Yes	tists.
University of North Carolina	Yes	Yes	Yes	Yes	Charge made for ser
North Carolina College for Women.	Yes	Yes	Yes	Yes	ous operations.
North Carelina State College	Yes	Yes	Yes		Fee, \$2.
North Dakota Agricultural	Section Holling	Yes		Ye	Special ward in bor
University of North Dakota	Yes	Yes.,	Yes	Yes	City board of healt
Ohio University	,	Yes	Yes	Partly	attends to this.
The state of the s	Yes	No	Yes	Partly	\$3.50 per day in hor pital.
Ohio State University	Y	Yes	No	Yes	P
Visit University	Yes	No	No	No	Fee, \$5.
Oklahoma College for Women.	No.	Yes		Yes	and the second
University of Oklahoma	Yes	No	Yes	Yes	\$2.50 per semester.
College, Pregon State Agricultural Col- lege.	Yes	Ys	Yes	No	Included in studen fee, \$18.50; free has pital service 10 days
Iniversity of Oregon	X cs	Yes	Yes	Yes	\$2 n. term.
Pennsylvania State College Rhode Island State College	YesYes	Yes	Yes	V-	\$1 each semester:
Iniversity of South Carolina	Yes Limited	Yes For women .	Yes No	Yes	
Iniversity of South Dakota		For girls	For girls	Yes	A
Iniversity of Tennessee	Yes	Yes	Yes	Yes	\$5 per year.
Iniversity of Texas	Yes	Yes	Yes	Yes	and a second section
College of Texas.	Yes	Yes	Yes	No	\$10 per semion.

SOLISTHE STUDENTS HEALTH SERVICE

TABLE 6 .- Institutions providing health service - Continued

Institution	Physician	Nurse	Hospital or in- firmary	Free service	Remarks
			4		
Public-Continued	-1-1				
University of Vermont and	For women	Yes	Yes	No	Use bospitals affiliated
State Agricultural College. Virginia A. and M. College				1	with medical college.
and Polytechnic Institute. University of Virginia		Yes			The second secon
2					bouses not approve by medical inspector set no free medical
State College of Washington	1	4 4		1	physicism and board
University of Washington	Yes	Yes	Yes	No	\$1 all sindente \$1 50
West Virginia University	You	Yes	Yes	No	\$2.50 each semester:
					medical attention in- cludes minor surgery
Calversity of Wisconsin	Ven	V-	V-	V	from medical school.
Calversity of Wisconsin Calversity of Wyoming	No	No	No	100	\$3.00 each temester.
Private		1			
Birotesham-Southern College	Va	V-	V	v	
Birningham-Southern College. University of Southern Cali-	No.	No	No	108	
Leland Stanford Junior Uni-					
Versity. Colorado Collega	No	No	No .		
Colorado College University of Denver Trinity College (Hartford, Conn.)	No	No	No	*********	
Conn.). (Hartford,	Yes	No	No		
Wesley an College	Yes	Ye	Ye	No	Hospital at rate of
Yale University	Yes	Yes	Yes	Partly	35 per day, Service
Connecticut College for Warmen	Yes	Y	Yes	No	Fee of \$10 charged all students, except day
George Washington Univer-	Yes	Yes	Yes	No	students. 14 per year.
Howard University	Yes	Y	Yes	Yes	
D.C.	*******		1 00	*******	
Agnes Scott College Emory University University of Chicago Northwestern University	Yes	Yes	Ye	Yes	and the state of
University of Chicago	Yes	Yes	No.	Yes	Nominal expense.
Northwestern University Enox College	Yes	Yes	Yes	*********	24.000
Wabash College	1.			**********	diagnosis by health department.
					Physician gives diag- nosis only.
Earlham College		Yes	Yes	Usually.	Free service except for
De Pauw University		Yes	Yes	No	Pay for physician serv- loss required,
University of Notre Dame Deake University	No	No	No	Na	
Cornett College	No	Yes	Yes	3 days	Moderate charge after
Baker University	No	No	No		3 days.
Washburn College Tulane University of Louisiana	No	NoYes	No	1,1466-877	
Petos Columb	Yes	Ye	Yes	No	\$5 a term. \$5 a year.
Colby College.	Yes	Yes	Yes	ALC: NOW	
ohns Hopkins University		Yes		ALCOHOL: NO.	Student pays for spe- cial pursing.
Imherst College	Yes	Yes	Yes	Partly Yes	Pree physician for 1 visit; hospital charge
loston University	No.	No	No	1	for bed and board.
mmons College	No.	Ma I	No		11 3 10 1
mivard University	Yes	Yes	Yes	No	All students pay \$7 annually.
Technology.	Yer	Yes			



· TABLE 6 .- Institutions providing health service-Continued

Radcliffe Col Beston Colleg Smith Colleg Mount Holy Tuits College Wellesley Co Williams Col Clark University	Continued logs	NoYesYes	Yes	4,0		
Radcliffe Col Beston Colleg Smith Colleg Mount Holy Tuits College Wellesley Co Williams Col Clark University	ge	NoYesYes	No.	0		
Radcliffe Col Beston Colleg Smith Colleg Mount Holy Tuits College Wellesley Co Williams Col Clark University	ge	NoYesYes	No.			1
Mount Holy Tuits College Wellesley Co Williams Col Clark Univer	oire College	Yes	No	and the later of t		Nurse for dormitory
Wellesley Co Williams Col Clark Univer	liere	Yes		No Yes:	No	\$10 infirmary fee for i
Clark Univer	llege	* W	Yes	Yes Yes	No Usually	\$10 annually. Charge for prolonged
Clark Univer	1668	Yes	Yes	Yes	l week	32.25 per day.
Warcester Po	aity dyclinic Institute.	No	No	No	Y-65	First aid department in gymnasium free to all.
Carleton Coll Washington	Dniversity 18t.	Yes	YesYes	Yes	No	\$2,50 per day. \$2 health See, \$6 op
Dartmouth (University (8t.	Yes	Yes	Yes		Free to students un
Rutgers Coll	oge	Yes	No	No	Yes	able to pay.
Wells College	iversity	Yes	NoYes	Yes	No Partly	\$10 annually. Consultation free, in- firmary \$1.50 per day.
University of	Buffalo	Yes		Yes	Yes	If student can not
	llege	a the second of	Yes	100 Tel. 100		named and misselding
Colgate Univ	eristy	Yes	Yes	Yes	Yes	+
Cornell Univ	ensity	YesYes	Yes Yes Yes	Yes	No	\$5 a term.
Columbia Ur	iversity.	Yes				
Fordham Un New York U	iversity lversity niversity	YesYes	YesYes	Yes	Yes	A LEG TO DEGREE WA
Vemer Colleg		Vos	Ven	Ve	No +	General fee, \$10.
University of	Rochester	Yes	Yes	No	Yes	Not mentioned in mi
7.00	Water Committee of the	THE RESERVE	4 30 3 3 3 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5	Comment of the Comment		alogue,
Duke Univer	versity	Yes	Yes	Yes	Ŋo	Secrity. Fee included in me triculation fee.
Case School o Western Res	Applied Science.	NoYes	No	No	Yes	One hospital bed svali
Oberlin Colle	go	Ma	Was .	V-	Ma	\$0 mail days
Antioch Colle	Ko	Yes Yes No. Yes Yes Yes	Yes	Yes	No No	\$10 per year.
asset College		Yes	Yes	No	No	\$3 per year.
Labieh Hale	niversity	No	No	No.	No.	\$10 per year.
Bryn Mawr	oratty College	Yes.	Yes	Yes	140.11-10	and hot have
Lalayette Col	lega	Yes	Yes		Yes	(3)
MANAGE TOTAL CO	Hege	Y 68	I 00	1 60	I Congress	Brall fee for infirmity
Temple Univ University of	Pennsylvania	Yes	Yes	Yes	Yes Not al- ways.	According to the dr
DOLOGEVY	titute of Tech-	Yes			Yes	student.
Swarthmore '	and Jefferson	Yes No	Yes	Yes No	Yes	+ 5
Brown Unive	rsity	Yes	Yes	Yes	Partly	Consultation free, ser-
Converse Col	lego	Yes	Yes	Yes	Yet	Nominal entrance in
Vanderbile II	Chattanooga	No	No	No		
University of	the South	Yes	Yes	Yes	No.z	\$1.00 per-day.
Rice Institute	1411100G-0001100	No	No	No		17
Baylor Unive	raity	No	Yes 1	Yes 1	Y	
Washington	and Lee Uni-	Yes	No	Yes	10 days.	\$6 per year.
Versity of	Richmond	Yes	Yes	Yes		\$6 medical no pe
Sweet Briar C	OoTlege	Yes	Yes	Yes	No	\$10 fee. Infirmary fee; student
200000000000000000000000000000000000000	A STATE OF THE STA	No			A	pays physician.





7. Equipment for Physical Activities

Gymnasiums.—The total number of gymnasiums provided by 167 institutions is 222. Of these, 108 are provided by 74 public and 114 by 98 private institutions. Comparing these figures with those given by Dr. Willard S. Small, in an article in the American Physical Education Review, May, 1919, it is evident that there has been a steady increase in the number of college gymnasiums. Doctor Small sent questionnaires to 250 institutions; 143 replied and of this number only 110 had gymnasiums.

Open-air gymnasiums.—Among the gymnasiums used at present several deserve a passing remark. The University of Missouri has a plat, approximately 200 by 150 feet, which is used for general recreation and gymnasium work. No apparatus is used on this plat, but it is reserved for general class work and competitive games. The University of Oregon built an outdoor gymnasium in 1920, but on account of so much bad weather and storms decided to board up the structure this year in order that it might be used during the long season of bad weather. The North Carolina College for Women has an outdoor gymnasium which has proved more satisfactory than was expected. In this climate the temperature is seldom too cold for outdoor sports, and in the rainy season when the ground is not fit for sports this structure furnishes ample facilities for physical education activities.

Athletic fields.—The total number of athletic fields provided by 161 institutions is 232. Of this number, 105 are provided by 70 public institutions and 127 are provided by 91 private institutions. One other institution uses municipal fields for this work. This plan might be used by other institutions where these facilities are available.

Tennis courts.—Approximately 972 tennis courts are provided by 148 institutions. Of this number, 293 are provided by 64 public institutions, and 679 by 84 private institutions. Many institutions failed to specify in their reports the number of tennis courts available and many reported that they were planning additional equipment as soon as possible.

Track.—The total number of tracks provided by 146 institutions is 175. Of this number, 77 are provided by 66 public institutions, and 98 are provided by 80 private institutions. A large number of these are outdoor tracks.

Swimming pools.—The total number of swimming pools provided 106 institutions is 114. Of this number, 50 are provided by 47



^{*}Small, W. S. Physical education in the preparation of teachers. Amer. Phys. Ed. Rev., 24:435-37, Nov., 1919.

public institutions, and 64 are provided by 59 private institutions. Two other private institutions rent outside pools for their students.

**Open-air swimming pools.—Several institutions, including the University of New Hampshire, Earlham College, and Stanford University, have outdoor swimming pools.

- Stadia.—The tendency to build immense stadia is recent in American institutions. Previous to the war only a few of the larger institutions had this equipment. During the past five years many institutions have spent large sums of money for building stadia which are used for promoting intramural as well as intercollegiate athletics.

Forty-six public institutions have stadia or grand stands which have seating capacities ranging from 2,000 to 80,000. Three other public institutions are constructing stadia. Forty private institutions have stadia or grand stands, the seating capacity of which ranges from 600 to 60,000. One private institution is building a stadium and another is considering doing this.

Golf.—Eighteen public and 18 private institutions provide either whole or partial golf links as a part of their equipment. Three other public and 13 other private institutions arrange for the use of available public or private golf courses by their students.

Boating.—Forty-seven institutions, including 17 public and 30 private, have facilities for canoeing or rowing. Of this group, 2 public and 7 private institutions are women's colleges.

Bowling alleys.—A total number of 33 bowling alleys are provided by 18 institutions. Of this number, 10 are provided by 4 public and 23 by 14 private institutions.



Institution of gymnasium Alabama Polytechnic Institute Oniversity of Arkona University of Arkona University of Arkona	, , , , , , ,	in feet	Thing.	1	A	•	Tennis	Capacity			DE DE
	4 14 1 1626	•	pools	Delds Delds	of tracks	Golf course	courts available	The same of		ing and rowing	
	# # # # # # # # # # # # #		•	٠	•		•	•		*	
	# 14 1 1436										
	u	by' 60.	*	*	1	1				-	
	- 0	,500 square feet				"Available"	000	8,000			
Transity of California	2	00 -40		-	-		Yes.				
		00 by 30	*	-	-		۰	80,000			
University of Colorado 1.	*		4		-		Year	28,000			
Colorado Agricultural College	8 :) by 3.6.	-					5,000			
Connection Agricultum Conege Oniversity of Delaware	11	-	-		1						
Florida State College for Women	2.	by 60		1		1	9		Yes.		
Georgia School of Technology	i ii			445			K S	3,600	_		
University of History Indiana State University	- 61	- Pa 03 04	1				× ×	3.0			
Furdue University.	. 60	160 by 80.	٠-	-	-			20,000	Yes		
lows State College of Agriculture and Mechanic	64	by 300	-	-	-		Yes.	12,000			
University of Iowa	1 17	160 by 180		1		Yes	. 15	25,000	Yes		
Ennsas State Agricultural College University of Kentucky		97 by 83 00 by 183	1				XX	5.5 000 000 000 000		-11	
constant State University and A. and M. College. Iniversity of Malne. Iniversity of Marchand	26	by 130.	-	·	, ,	"Available"	Yes.	- 5.46 88	8 8 2 2	,	
Massachusetta Agricultural College		9			1,-1,-						
Michigan Agricultural College					•		Yes.	20, 60			

ntinued
itutions Co
private inst
public and
ruipment in
BLB 7.—B
TA

Institution	Number of gym- nasiums	Size of gymnasiums, In feet	Number of swim- ming pools	Number of ath- letic fields	Number of tracks	Golf course	Tennis courts available	Capacity of stadium	Facilities for canon ing and rowing
	•	•	-	•.	•	-	•	•	*
Mississippi Agricultural and Mechanical College	HH	60 by 120.					•	. 6, 000	
University of Missouri Monkana State College of Agriculture and Me- chanic Arts.	64 64		ŕ	MM-		•	×e.	2,000	
Montans State University	64	74 by 140 (45 by 90 (85 by 45		1	-			6,000	
University of Newsda. New Hampshire College of Agriculture and Me-	8 nd				n n		8 41	40,080	8 X
State University of New Mexico New-Mexico College of Agriculture and Mechanic Arts.		50 by 80	1		~		Yes	8	
College of the City of New York Hunter College of the City of New York	- n	66 by 117 46 by 50 50 by 90	7 -	5 A			No.	4,000	v
University of North Carolina. North Carolina College for Women	. 1	120 by 80 70 by 90 70 by 90 45 by 60	;	- **			8	15,000	
North Carolina State College of Agriculture and Engineering: North Dakota Agricultural College	es ÷	45 by 60. 130 by 110. 85 by 33.					•	11, 500	4
University of North Dakota. University of Akron.		200		<u>,</u> ,			4 6	3,000	
Obio University University of Cincinnati		107 by 160.		1				8,000	•
Ohio State University Miami University Toledo University	N -0	100 by 50. (50 by 50. 75 by 110.	_	- 0			Y88.	12,500 74,000 4,000	Yes.
dahoma College for Women.	-	50 by 70.				***************************************			

PHYSICAL EDUCATION IN AMERICAN COLLEGES

117 by 80 1 1 1 1 1 1 1 1 1	(se. 8,000 8 21,000 Yes.	13 12,500 Yes.	Yes. 24,000	15 6,000	7 s Ye.	70,000 Yes. ¹¹ .	4 4,000	Yes. 4,500 Yes.	Ybe. (19)	-	91	Yes. 40,000 Yes.	Yes. 53,000 Yes.	•		Yes. 3,000 Yes.	1.1	
(17) by 80 (19) by 100 (120) by 110 (120) by 87 (120) by 87 (120) by 87 (120) by 87 (120) by 110 (120) by 110 (120) by 110 (120) by 110 (120) by 100 (120) by	1 2 "Partial" X	'1 "Partial"	***************************************		8	2 Y	- 2			2 2	1 2 Yes	1 Yes Y	I Yes		100		5-thole course Course of 740 acres.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	117 by (70 by (160 by	120 by	Z .	- 1	65 by		In A	1 100 by 140.	188	288	(110 by 80. 50 by 60. 4 50 by 30.		10-			(ii) 2	F 9.	

TABLE 7.—Bquipment in public and private institutions—Continued

Institution	Number of gym- nssiums	Size of gymnasiums, in feet	Number of swim- ming	Number of ath-	Number of tracks	Golf course	Tennis courts available	Capacity of stadium	Facilities for cance ing and rowing
1	-		•	•	•		•	•	2
Private—Continued Georgetown University							-		7
George Washington University Howard University, Trinity College (Washington, D. C.) Agnes Scott College		33 by 00. 90 by 70.	-	3.1		Use public links	0.4		*
y leago ulversity	M	300 by 100. 100 by 40. 130 by 40.	, e	HHHH-		*	* 5 m =	2,000	i k
Earlham College De Pauw University University of Notre Dame Drake University Grinnell College Cornell College		100 by 200. 160 by 90. 220 by 100. 60 by 96. 125 by 122.			1-8	9-hole course Use public links Vse city clubs	× × × × × × × × × × × × × × × × × × ×	7, 000 17, 000 7, 000 0, 000	Y
W sanburn College. Tutane University of Louisiana. Bowdoin College. Bates Callege. Colby College.		300 by 150.				Yea	Ye. Ye. Ye.	10,000	Yes
Control Confession Control Control Control Control Confession Conf		70 by 30.		-54		Use public links	X Se S	10,000	
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TABLE 7.	
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Institution	Number of gym- nasiums	Size of gymnasiums, in feet	Number of swim- ming '	Number of ath- letic fields	Number of tracks	Golf course	Tennis courts available	Capacity of stadium	Tennis Capacity Facilities for canoe- courts of ing and rowing
-		•	-		•	,	•	•	3,
Private—Continued Washington and Jefferson College Brown University Converse College Maryula College		60 by 100. 100 by 33.			. '	"Available"	, N	1, 800 16, 000 2, 800	Yes
Fish University Wenderbilt University University of the South Rice Institute.		97 by 54 100 by 60.	-		C4	Yes	90	22,000	o Z
Randolph Macon College Washington and Lee University Randolph-Macon Woman's College University of Richmond Sweet Briar College Whitman College Beloit College		65 by 120 100 by 50 48 by 57 114 by 62 105 by 51				Yee Course available	Yes	3,000	Yes. Yes, lake.

A recreation camp is maintained by university near Boulder.
A radium amphitheater furnishes a stadium.
A stadium now being constructed.
Stadium will body 20,000 when completed.
Grandstand is provided.
College maintains a recreation camp.
Two of these are outdoor grannssiums.
The playgrounds cover 100 acres.
The playgrounds cover 100 acres.
The playgrounds cover 100 acres.

11 A househoat for camping parties of women also provided.
12 Building one.
14 Floor space of men's gymnasium, 35,070 square feet; of the 4 women's gymnasiums, 14,638
15 Square feet.
16 The institution rents a swimming pool for women.
17 Dee city athletic field.
18 Portable seats.

14 The institution rents a swimming pool for women.
15 Use city athletic field.
16 Fortable seats.
17 Use high-school swimming pool.
18 One and one-half acres.
18 'Projected."

8. Summary

Section 1 brings out the fact that a large number of colleges and universities require a medical examination of all students at entrance. This examination is valuable not only in promoting student health, but it is a means of eliminating from entrance to college students who are physically unfit, as well as enabling the director of physical education to classify all first-year students into suitable physical education classes.

While a large number of high schools allow a certain amount of physical education to help fulfill the graduation requirements, only two institutions of higher education allow these credits to be included among the entrance requirements.

Section 2 emphasizes the fact that physical education is now included as a part of the required work of practically every undergraduate course leading to a bachelor's degree. This indicates that physical education is no longer considered something apart from general education, but is directly connected with it as a basic part.

Section 3 contains a brief account of the organization of the senior division of the Reserve Officers' Training Corps in colleges and universities. The detailed study of military training given in the 62 public and 21 private institutions included in this study may be considered representative of the situation as a whole in the United States. Inasmuch as a splendid feeling of cooperation exists between the educational institutions providing military training and the War Department, this policy is probably the best possible means of continually supplying an increasing number of trained men who would be available in case of war.

Section 4 points out the fact that hygiene is now considered an important college course by a large number of institutions. However, institutions have not as yet adopted any standard policy for giving this work. Sometimes it is given by the department of military training, sometimes by the department of physical education, and sometimes in connection with the required biology, physiology, or science courses where it is considered as a part of these courses.

Section 5 points out the recent growth of intramural athletics. It shows that there is a strong tendency among institutions to abolish the old method of joint control by faculty, president, and alumni, and to have intercollegiate athletics managed by the department of physical education. It emphasizes the importance of having all athletic games under careful supervision.



Section 6 presents an account of the students health service. The large number of these organizations proves that good health is considered by the colleges and universities an asset which every student should have, not only for his college life but especially at graduation. The growth of this organization came about as the result of a realization that physical education alone could never entirely safeguard the students' health. There was a need for continuous medical supervision working on a cooperative plan with the physical education department. The students' health service was organized to do this.

Section 7 contains a summary of the equipment for physical activities provided by colleges and universities. It brings out the fact that equipment for swimming is considered very important, and that equipment for tennis can hardly be provided to fill the present demand. It shows a growing tendency to provide either complete or partial golf courses.

In general, it may be stated that the majority of colleges and universities in the United States are providing well-organized, healthful, educational, and recreational physical activities for their students. The programs of activities vary somewhat in different localities on account of the different climatic conditions. Institutions in the Northern States take advantage of opportunities for outdoor winter sports, and those in the Southern States are inclined to carry on outdoor programs during the entire season. The large amount of outdoor equipment provided by all the institutions indicates that the tendency of all institutions is to stress outdoor activities as far as possible.



Institutions Included in This Investigation

Public

Alabama Polytechnic Institute, Auburn, Ala.

Alabama Technical Institute, Montevallo, Ala.

University of Alabama, University, Ala.

University of Arizona, Tucson, Ariz.

University of Arkansas, Fayetteville, Ark.

University of California, Berkeley, Calif.

University of Colorado, Boulder, Colo.

Colorado Agricultural College, Fort Collins, Colo.

Connecticut Agricultural College, Storrs, Conn. -

University of Delaware, Newark, Del.

University of Florida, Gainesville, Fla.

Florida State College for Women, Tallahassee, Fla.

University of Georgia, Athens, Ga.

Georgia School of Technology, Atlanta, Ga.

University of Idaho, Moscow, Idaho.

University of Illinois, Urbana, Ill.

Indiana University, Bloomington, Ind.

Purdue University, Lafayette, Ind.

Towa State College of Agriculture and Mechanic Arts, Ames, Iowa.

State University of Iowa, Iowa City, Iowa.

University of Kansas, Lawrence, Kans.

Kansas State Agricultural College, Manhattan, Kans.

University of Kentucky, Lexington, Ky.

Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La.

University of Maine, Orono, Me.

University of Maryland, College Park, Md.

Massachusetts Agricultural College, Amherst, Mass.

University of Michigan, Ann Arbor, Mich.

Michigan Agricultural College, East Lansing, Mich.

University of Minnesota, Minneapolis, Minn.

Mississippi Agricultural and Mechanical College, Agricultural College, Miss.

Mississippi State College for Women, Columbus. Miss.

University of Mississippi, University, Miss.

University of Missouri, Columbia, Mo.

Montana State College of Agriculture and Mechanic Arts, Bozeman, Mont.

Montana State University, Missoula, Mont.

University of Nebraska, Lincoln, Nebr.

University of Nevada, Reno, Nev.

New Hampshire College of Agriculture and Mechanic Arts, Durham, N. H.

University of New Mexico, Albuquerque, N. Mex.

New Mexico College of Agriculture and Mechanic Arts, State College, N. Mex.

College of the City of New York, New York, N. Y.

Hunter College of the City of New York, New York, N. Y..

University of North Carolina, Chapel Hill, N. C.

North Carolina College for Women, Greensboro, N. C.

North Carolina State College of Agriculture and Engineering, Raleigh, N. C.



North Dakota Agricultural College, Agricultural College, N. Dak. University of North Dakota, University, N. Dak.

University of Akron, Akron, Ohio.

Ohio University, Athens, Ohio.

University, of Cincinnati, Cincinnati, Ohio.

Ohio State University, Columbus, Ohio.

Miami University, Oxford, Ohio.

Toledo University, Toledo, Ohio.

Oklahoma College for Women, Chickasha, Okla.

University of Oklahoma, Norman, Okla.

Oklahoma Agricultural and Mechanical College, Stillwater, Okla.

Oregon State Agricultural College, Corvallis, Oreg.

University of Oregon, Eugene, Oreg.

Pennsylvania State College, State College, Pa.

Rhode Island State College, Kingston, R. I.

Clemson Agricultural College, Clemson College, S. C.

University of South Carolina, Columbia, S. C.

South Dakota State College of Agriculture and Mechanic Arts, Brookings, S. Dak.

University of South Dakota, Vermilion, S. Dak.

University of Tennessee, Knoxville, Tenn.

University of Texas, Austin, Tex.

Agricultural and Mechanical College of Texas, College Station, Tex.

College of Industrial Arts, Denton, Tex.

Agricultural College of Utah, Logan, Utah.

University of Utah, Salt Lake City, Utah.

University of Vermont, Burlington, Vt.

Virginia Agricultural and Mechanical College and Polytechnic Institute, Blacksburg, Va.

University of Virginia, Charlottesville, Va.

College of William and Mary, Williamsburg, Va.

State College of Washington, Pullman, Wash.

University of Washington, Seattle, Wash.

West Virginia University, Morgantown, W. Va.

University of Wisconsin, Madison, Wis.

University of Wyoming, Laramie, Wyo.

Private

Birmingham-Southern College, Birmingham, Ala.

University of Southern California, Los Angeles, Calif.

Leland Stanford Junior University, Stanford University, Calif.

Colorado College, Colorado Springs, Colo.

University of Denver, Denver, Colo.

Trinity College, Hartford, Conn.

Wesleyan University, Middletown, Conn.

Yale University, New Haven, Conn.

Connecticut College for Women, New London, Conn.

Catholic University of America, Washington, D. C.

Georgetown University, Washington, D. C.

George Washington University, Washington, D. C.

Howard University, Washington, D. C.

Trinity College, Washington, D. C.

Agnes Scott College, Decatur, Ga.

Emory University, Emory University, Ga.

University of Chicago, Chicago, Ill.



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Northwestern University, Evanston, Ill. Knox College, Galesburg, Ill. Wabash College, Crawfordsville, Ind. Earlham College, Earlham, Ind. De Pauw University, Greencastle, Ind. University of Notre Dame, Notre Dame, Ind. Drake University, Des Moines, Iowa. Grinnell College, Grinnell, Iowa. Cornell College, Mount Vernon, Iowa. Baker University, Baldwin City, Kans. Washburn College, Topeka, Kans. Tulane University of Louisiana, New Orleans, La. Bowdoin College, Brunswick, Me. Bates College, Lewiston, Me. Colby College, Waterville, Me. Goucher College, Baltimore, Md. Johns Hopkins University, Baltimore, Md. Amherst College, Amherst, Mass. Boston University, Boston, Mass. Simmons College, Boston, Mass. Haryard University, Cambridge, Mass. Massachusetts Institute of Technology, Cambridge, Mass. Radcliffe College, Cambridge, Mass. Boston College, Chestnut Hill, Mass. Smith College, Northampton, Mass. Mount Holyoke College, South Hadley, Mass. Tufts College, Tufts College, Mass. Wellesley College, Wellesley, Mass. Williams College, Williamstown, Mass. Clark University, Worcester, Mass. Worcester Polytechnic Institute, Worcester, Mass. Carleton College, Northfield, Minn. Washington University, St. Louis, Mo. Dartmouth College, Hanover, N. H. Rutgers College, New Brunswick, N. J. Princeton University, Princeton, N. J. Wells College, Aurora, N. Y. University of Buffalo, Buffalo, N. Y. Hamilton College, Clinton, N. Y. Colgate University, Hamilton, N. Y. Cornell University, Ithaca, N. Y. Barnard College, New York, N. Y. Columbia University, New York, N. Y. Fordham University, New York, N. Y. New York University, New York, N. Y. Vassar College, Poughkeepsie, N. Y. University of Rochester, Rochester, N. Y. Union University, Schenectady, N. Y. Syracuse University, Syracuse, N. Y. Rensselser Polytechnic Institute, Troy, N. Y. Duke University (formerly Trinity College), Durham, N. C. Wake Forest College, Wake Forest, N. C. Case School of Applied Science, Cleveland, Ohio. Western Reserve University, Cleveland, Ohio.

Ohio Wesleyan University, Delaware, Ohio. Oberlin College, Oberlin, Ohio. Antioch College, Yellow Springs, Ohio. 'Reed Collège, Portland, Oreg. Willamette University, Salem, Oreg. Lehigh University, Bethlehem, Pa. Bryn Mawr College, Bryn Mawr, Pa. Lafayette College, Easton, Pa. Haverford College, Haverford, Pa. Temple University, Philadelphia, Pa. University of Pennsylvania, Philadelphia, Pa. Carnegie Institute of Technology, Pittsburgh, Pa. University of Pittsburgh, Pittsburgh, Pa. Swarthmore College, Swarthmore, Pa. Washington and Jefferson College, Washington, Pa. Brown University, Providence, R. T. Converse College, Spartanburg, S. C. University of Chattanooga, Chattanooga, Tenn. Maryville College, Maryville, Tenn. Fisk University, Nashville, Tenn. Vanderbilt University, Nashville, Tenn. University of the South, Sewance, Tenn. Rice Institute, Houston, Tex. Baylor University, Waco, Tex. Randolph-Macon College, Ashland, Va. Washington and Lee University, Lexington, Va. Randolph-Macon Woman's College, Lynchburg, University of Richmond, Richmond, Va. Sweet Briar College, Sweet Briar, Va. Whitman College, Walla Walla, Wash. Beloit College, Beloit, Wis.

Appendix

The following additional information regarding the status of military training and physical education is herewith presented, in order that the study may be more complete: (1) Institutions requiring and urging vaccination for smallpox and typhoid for college entrance; (2) selected bibliography.

(1) Institutions Requiring or Urging Vaccination for Smallpox and Typhoid for - College Entrance

Institutions Requiring Vaccination for Smallpox 10

Public.—Alabama Polytechnic Institute, University of Alabama, University of Arkansas, University of California, University of Florida, University of Illinois, University of Kansas, University of Michigan, University of North Carolina, North Carolina College for Women, North Carolina State College of Agriculture and Engineering, University of Cincinnati, Ohio State University, Miami University (Ohio), Oklahoma College for Women, University of Oklahoma, Oregon State Agricultural College, Pennsylvania State College, University of South Carolina, South Dakota College of Agriculture and Mechanic Arts, University of Tennessee, University of Texas, Agricultural and Mechanical College of Texas, Virginia Agricultural and Mechanical College and Polytechnic Institute, The College of William and Mary.

Private.—Leland Stanford Jr. University, Wesleyan University (Conn.), Yale University, Connecticut College for Women, Agnes Scott College, Emory University, University of Chicago, Northwesterh University, Knox College, De Pauw University, University of Notre Dame, Bates College, Goucher College, Harvard, University, Mount Holyoke College, Tufts College, Wellesley College, Washington University (St. Louis, Mo.), Rutgers College, Princeton University, Columbia University, Fordham University, University of Rochester.

Antioch College, Temple University, University of Pennsylvania, University of Pittsburgh, Swarthmore College, Washington and Jefferson College, Brown University, Converse College, Vanderbilt University, Baylor Institute, Sweet Briar College.

Institutions Requiring Vaccination for Smallpox in Emergencies Only

Public.—Louisiana-State University, Agricultural and Mechanical College, Mississippi Agricultural and Mechanical College.

Private.—Reed College.

Institutions Urging Vaccination for Smallpox

Public.—University of Minnesota, State University of New Mexico.

Private.—Cornell College.

Institutions Reguling Veccination for Typhold 11

Public.—University of Kansas, University of Michigan, University of Oklahoma, University of South Carolina, Virginia Agricultural and Mechanical College and Polytechnic Institute.



[&]quot;Vaccination for smallpox is required by the Reserve Officers' Training Corps."

[&]quot;Vaccination for typhoid is one of the Reserve Officers' Training Corps requirements.

Private.—Wesleyan University (Conn.), Agnes Scott College, Emory University, Northwestern University, De Pauw University, Massachusetts Institute of Technology, Fordham University, Antioch College.

Institutions Requiring Vaccination for Typhoid in Emergencies Only

Public.—Louisians State University and Agricultural and Mechanical College, Mississippi Agricultural and Mechanic Arts College, Oregon State Agricultural College.

Private.—Reed College, University of Chattanooga.

Institutions Urging Vaccination for Typhoid

Public.—Alabama Polytechnic Institute, State University of New Mexico, University of Tennessee.

Private.—Wellesley College, Princeton University, Duke University (North Carolina), Converse College (South Carolina).

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